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C'

110. (New) The ink cartridge according to claim 1, wherein the electrical contacts lie on the central line of the ink supply port.

111. (New) The ink cartridge according to claim 1, wherein the memory device is located on the central line of said ink supply port.

112. (New) The ink cartridge according to claim 1, wherein the contact in the first row is narrower than the contact in the second row.

113. (New) The ink cartridge according to claim 1, wherein the ink cartridge comprises a plurality of ink supply ports.

114. (New) The ink cartridge according to claim 1, wherein the electrical contacts of each row are symmetrically disposed about the central line of the ink supply port.

115. (New) The ink cartridge according to claim 23, wherein the electrical contacts of each row are symmetrically disposed about the central line of the ink supply port.

15 116. (New) The ink cartridge according to claim 23, wherein the contact in the first row is narrower than the contact in the second row.

16 117. (New) The ink cartridge according to claim 23, wherein the ink cartridge comprises a plurality of ink supply ports.

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10 118. (Amended) The ink cartridge according to claim 31, wherein the electrical contacts are arranged so that at least one contact is spaced apart from the central line of the ink supply port.

119. (New) The ink cartridge according to claim 35, wherein the electrical contacts are symmetrically disposed about a central line of the ink supply port.

120. (New) The ink cartridge according to claim 55, wherein the overhang member is a single member which extends from the first upper corner to the second upper corner.

121. (New) The ink cartridge according to claim 55, wherein the electrical contacts lie on a central line of the ink supply port.

122. (New) The ink cartridge according to claim 55, wherein the electrical contacts are symmetrically disposed about a central line of the ink supply port.

123. (New) The ink cartridge according to claim 55, wherein the ink cartridge comprises a plurality of ink supply ports.

124. (New) The ink cartridge according to claim 55, wherein the overhang member comprises a first projection located at the first upper corner and a second projection located at the second upper corner.—

Amend claims 1-9, 12-20, 23-37, 48, 49, 51, 52, 54-75 and 78-82:

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1. (Amended) An ink cartridge for an ink jet printing apparatus having a printhead which ejects ink droplets onto a recording medium, the printhead having an ink supply needle, and is mounted on a movable carriage, the ink cartridge comprising:

a housing containing an ink therein and configured for removable mounting on the printhead, said housing having a first wall and a second wall, the second wall having both a first upper corner and a second upper corner;

an ink supply port formed on said first wall for receiving the ink supply needle of the printhead and supplying the ink from said housing to the printhead;

a memory device storing information about the ink disposed on said housing;

at least two electrical contacts on said second wall and allowing electrical communication between the memory device and the ink jet printing apparatus, each of the electrical contacts lying at a predetermined distance from the central line of the ink supply port, the contacts lying in at least a first row and a second row, the first row being closer to a line connecting the first and the second upper corners than the second row; and

an overhang member disposed between the first upper corner and the second upper corner.

2. (Amended) The ink cartridge according to claim 1, wherein said memory device is disposed on said first wall of said housing.

3. (Amended) The ink cartridge according to claim 1, wherein said memory device is disposed on a center line of said second wall of said housing in the vicinity of said ink supply port.

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4. (Amended) The ink cartridge according to claim 1, wherein said housing is substantially rectangular, and said memory device is disposed on said second wall which is substantially perpendicular to said first wall, said second wall has a shorter width than the other wall of said housing.

5. (Amended) The ink cartridge according to claim 1, wherein said memory device is disposed substantially in parallel with said second wall which is perpendicular to said first wall of said housing.

6. (Amended) The ink cartridge according to claim 1, wherein said memory device is located at an opposite position of a fulcrum of the ink cartridge when it is mounted on or removed from the printing apparatus.

7. (Amended) The ink cartridge according to claim 1, wherein said memory device is substantially rectangular and directs in a vertical orientation.

8. (Amended) The ink cartridge according to claim 1, wherein said memory device is detachably mounted on said housing.

9. (Amended) The ink cartridge according to claim 1, wherein said memory device comprises a positioning member.

C3
12. (Amended) The ink cartridge according to claim 1, wherein said housing comprises at least one rib which resiliently fits said housing with said memory device.

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C3

13. (Amended) The ink cartridge according to claim 12, wherein said rib is formed in a vertical direction of said memory device.
14. (Amended) The ink cartridge according to claim 12, wherein a height of said rib is higher than a plane of said memory device when said memory device is disposed on said housing.
15. (Amended) The ink cartridge according to claim 1, wherein said housing is formed with a concave portion in which said memory device is accommodated.
16. (Amended) The ink cartridge according to claim 1, wherein said memory device is mounted on said housing through a spring and a mounting plate.
17. (Amended) The ink cartridge according to claim 15, wherein a height of walls of said concave portion surrounding said memory device is higher than that of said memory device.
18. (Amended) The ink cartridge according to claim 15, wherein a plane of said memory device is aligned with a surface of a wall of said housing on which said memory device is disposed.
19. (Amended) The ink cartridge according to claim 1, wherein said memory device comprises a substrate, a plurality of terminals arranged on one surface of said substrate and a storage device disposed on the other surface of said substrate.

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C3

20. (Amended) The ink cartridge according to claim 1, wherein said housing comprises a plurality of ink chambers for different ink, and said memory device is disposed substantially at a center of the total width of said plurality of ink chambers.

CB

23. (Amended) An ink cartridge for mounting on a carriage of an ink jet printing apparatus and for supplying ink to a printhead of said ink jet printing apparatus through an ink supply needle, the ink cartridge comprising:

a plurality of external walls;
an ink supply port for receiving said ink supply needle, formed on a first of the walls; and
a memory device storing information about the ink carried by said cartridge; and
a plurality of contacts for connecting the memory device to the ink jet printing apparatus, the contacts being formed in a plurality of rows on a second of said walls intersecting said first wall, each said row being centered on a centerline of said ink supply port.

24. (Amended) The ink cartridge according to claim 23, wherein said memory device means is disposed on said first wall of said housing.

25. (Amended) The ink cartridge according to claim 23, wherein said memory device is disposed on said second wall of said housing in the vicinity of said ink supply port.

26. (Amended) The ink cartridge according to claim 23, wherein said memory device is disposed on said second wall which is perpendicular to said first wall of said housing.

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27. (Amended) The ink cartridge according to claim 23, wherein said memory means is substantially rectangular, and said memory device is disposed on said second wall which is substantially perpendicular to said first wall, and said second wall has a shorter width than the other wall of said housing.

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28. (Amended) The ink cartridge according to claim 23, wherein said memory device is disposed substantially in parallel with said second wall which is perpendicular to said first wall of said housing.

29. (Amended) The ink cartridge according to claim 23, wherein said memory device is located at an opposite position of a fulcrum of the ink cartridge when it is mounted on or removed from the printing apparatus.

30. (Amended) The ink cartridge according to claim 23, wherein said memory device is substantially rectangular and directs in a vertical orientation.

31. (Amended) An ink cartridge for mounting on a carriage of an ink jet printing apparatus and for supplying ink to a printhead of said ink jet printing apparatus through an ink supply needle, the ink cartridge comprising:

a plurality of external walls;
an ink supply port for receiving said ink supply needle, formed on one of said walls; and
a memory device storing information about the ink carried by said cartridge; and
a plurality of contacts for connecting said memory device to the ink jet printing apparatus, the contacts being formed in a plurality of rows so that one of said rows is closer to

CD
CP

~~said ink supply port than an other of said rows, the row of said contacts which is closest to said ink supply port being longer than the row of said contacts which is furthest from said ink supply port.~~

DY

32. (Amended) The ink cartridge according to claim 31, wherein said memory device is disposed on said housing and located on a central line of said ink supply port.

33. (Amended) The ink cartridge according to claim 31, wherein said wall on which said memory device is disposed is located in the vicinity of said ink supply port.

34. (Amended) The ink cartridge according to claim 33, wherein said memory device is located on a center line of said wall of said housing on which said memory device is disposed.

35. (Amended) An ink cartridge for an ink jet printing apparatus having a printhead which ejects ink droplets onto recording medium, the ink cartridge comprising:
a housing containing ink therein;
an ink supply port formed on a wall of said housing for directing ink in said housing to the printhead;
a memory device storing information of ink disposed on said housing; and
a plurality of terminals provided on said housing, at least one of which terminals electrically connects said memory device to said ink jet printing apparatus and at least one of which terminals electrically connects to at least two contact members of the printing apparatus when the ink cartridge is mounted on the printing apparatus.

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C/P

36. (Amended) The ink cartridge according to claim 35, wherein said memory device comprises a substrate and a storage device disposed on one surface of said substrate, and said plurality of terminals are arranged on the other surface of said substrate.

37. (Amended) The ink cartridge according to claim 35, wherein said memory device comprises a substrate and a storage device disposed on one surface of said substrate, and said plurality of terminals are arranged on the same surface of said substrate as said storage device.

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48. (Amended) The ink cartridge according to claim 35, wherein said memory device comprises six terminals each having a different function.

49. (Amended) The ink cartridge according to claim 39, wherein said memory device further comprises a conducting member which connects said first group to said second group of terminals when ink is adheres across the two groups of terminals.

C6

51. (Amended) The ink cartridge according to claim 35, wherein said memory device comprises a ground pad member for checking the content of said memory device.

52. (Amended) The ink cartridge according to claim 35, wherein said plurality of terminals are distanced from an edge of said memory device.

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54. (Amended) The ink cartridge according to claim 35, wherein said memory device comprises at least one terminal which physically contacts a contact member of the printing apparatus.

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55. (Amended) An ink cartridge for an ink jet printing apparatus having a printhead which ejects ink droplets onto a recording medium, the printhead having an ink supply needle, and is mounted on a movable carriage, the ink cartridge comprising:

a housing containing an ink therein and configured for removable mounting on the printhead, said housing having a first wall and a second wall, the second wall having both a first upper corner and a second upper corner;

an ink supply port formed on said first wall for receiving the ink supply needle of the printhead and supplying the ink from said housing to the printhead;

a memory device storing information about the ink disposed on a wall of said housing;

at least two electrical contacts for connecting the memory device to the ink jet printing apparatus, each of the electrical contacts lying at a predetermined distance from the ink supply port; and

at least one overhang member extending beyond a plane of the wall of said housing where said memory device is disposed, the overhang member being located between the first upper corner and the second upper corner.

56. (Amended) The ink cartridge according to claim 55, wherein said wall on which said memory device is disposed is perpendicular to a wall of said housing where said ink supply port is formed.

57. (Amended) The ink cartridge according to claim 55, wherein said memory device is located on a center line of said ink supply port.

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C/S

58. (Amended) The ink cartridge according to claim 55, wherein said memory device is disposed on a wall in the vicinity of said ink supply port substantially at a center position in the widthwise direction of said wall.

59. (Amended) The ink cartridge according to claim 55, wherein said memory device is disposed on a side wall of said housing.

60. (Amended) The ink cartridge according to claim 55, wherein said housing is substantially rectangular, and said memory device is disposed on a side wall of said housing which has a shorter width than the other side wall of said housing.

61. (Amended) The ink cartridge according to claim 55, wherein said memory device is located at an opposite position of a fulcrum of the ink cartridge when it is mounted on or removed from the printing apparatus.

62. (Amended) The ink cartridge according to claim 55, wherein said overhang member is formed at an upper position of said memory device.

63. (Amended) The ink cartridge according to claim 55, wherein said overhang member extends beyond the housing in a direction perpendicular to a plane of said memory device.

64. (Amended) The ink cartridge according to claim 55, wherein said memory device, said ink supply port and said overhang member are located at the same side of the ink cartridge.

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65. (Amended) The ink cartridge according to claim 55, wherein the interior of said housing is divided into at least two separate chambers, and said overhang member comprises two separate projections which extend beyond both ends in the widthwise direction of said wall on which said memory device is disposed.

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66. (Amended) An ink cartridge for an ink jet printing apparatus having a printhead which ejects ink droplets onto recording medium, the ink cartridge comprising:

a housing containing ink therein, said housing having a first wall and a second wall;
an ink supply port formed on said first wall for directing ink in said housing to the printhead;

a memory device storing information about the ink disposed on said housing; and
a plurality of contacts disposed at a predetermined angle relative to a wall plane on a wall of said housing, the contacts allowing electrical communication between the memory device and the ink jet printing apparatus.

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67. (Amended) The ink cartridge according to claim 66, wherein said memory device is disposed on the same wall as said ink supply port is formed.

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68. (Amended) The ink cartridge according to claim 66, wherein said memory device is located on a center line of said ink supply port.

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69. (Amended) The ink cartridge according to claim 66, wherein said memory device is disposed substantially at a center in the widthwise direction of said wall in the vicinity of said ink supply port.

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C 17

~~20.~~ (Amended) The ink cartridge according to claim ~~66~~¹⁷, wherein said memory device is disposed on a side wall of said housing.

~~21.~~ (Amended) The ink cartridge according to claim ~~66~~¹⁷, wherein said housing is substantially rectangular, and said wall on which said memory device is disposed is a side wall having a shorter width than the other side wall of said housing.

~~22.~~ (Amended) The ink cartridge according to claim ~~66~~¹⁷, wherein said memory device is diagonal with respect to a direction in which the ink cartridge is mounted on the printing apparatus.

~~23.~~ (Amended) The ink cartridge according to claim ~~66~~¹⁷, wherein said memory device is diagonal with respect to a plane perpendicular to a direction in which the ink cartridge is mounted on the printing apparatus.

~~24.~~ (Amended) The ink cartridge according to claim ~~66~~¹⁷, wherein said memory device comprises a storage device and a plurality of terminals which is grouped into at least two groups.

~~25.~~ (Amended) The ink cartridge according to claim ~~24~~²⁵, wherein said memory device comprises a first group of said terminals connect to said storage device and a second group of said terminals connect to contact members of the printing apparatus.

~~26.~~ (Amended) An ink cartridge for an ink jet printing apparatus having a printhead which ejects ink droplets onto recording medium, the ink cartridge comprising:

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C8

a housing containing ink therein;

an ink supply port formed on a wall of said housing for directing ink in said housing to the printhead; and

a memory device storing information of ink disposed on a wall of said housing, said memory device comprising:

 a substrate;

 a storage device disposed on said substrate;

 a plurality of terminals for connecting said storage device to contact member of the printing apparatus, said plurality of terminals are grouped into at least a first group and a second group; and

 a conducting member which connects said first group to said second group of terminals when ink is adheres across the two groups of terminals.

79. (Amended) An ink jet printing apparatus, comprising:

 a printhead for ejecting ink droplets onto a recording medium;

 an ink container supplying ink contained therein to said printhead;

 a memory device storing information of ink disposed at a predetermined position of said ink container;

 a holder for mounting thereon said ink container at a desired position and direction, said holder comprising a lever member operatively engaging with a part of said ink container when said ink container is mounted on said holder.

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